Review of: "Nano supercapacitors developed with multi-layer nanostructure technology are inherently solid and show excellent mechanical and thermal properties"

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Potential competing interests: No potential competing interests to declare.

Nano supercapacitors developed with multi-layer nanostructure technology are inherently solid and show excellent mechanical and thermal properties. >Dielectric materials and exchanges design with more layers.

Nanostructure multilayer capacitors will be developed and specified. One of the technologies that has grown significantly in recent years and can be the source of transformation in industries in the near future, including nanoelectronics, is the technology of making supercapacitors. It can be said that a supercapacitor is a kind of interface between electrolytic capacitors and rechargeable batteries. The structure and composition of nano supercapacitors based on nanoelectronics store 100 times more charge than electrolyte types in the same volume and are charged and discharged at a much faster rate than batteries. Of course, these capacitors still store up to 10 times less charge than some types of batteries in the same volume. According to these characteristics, supercapacitors are used in cases where frequent charging and discharging are required, a high charging speed is required, or a sudden discharge of the charge is required.

Conclusion:

Nanosupercapacitors, also called electrochemical supercapacitors or nanocapacitors, thus emerge as promising fuel sources with astonishingly fast charge release rates.

References

1. Malton Pereira. (2024). Review of: "Nanotubes other than CMOS nanotransistors in making gauges and actuators: Supercapacitors are also used in many other industries". Qeios. doi:10.32388/rgbw3z.


5. Lei Choe. (2024). Review of: “The field-effect tunneling transistor nMOS, as an alternative to conventional CMOS by enabling the voltage supply (VDD) with ultra-low power consumption.”. Qeios. doi:10.32388/z3oxov.


10. Alain Advich. (2023). Review of: “The speed of growth of this industry is such that with the smaller components, the number of transistors in the unit area of each semiconductor chip and nanochips has increased”. Qeios. doi:10.32388/1fhmw2.


